



CAPTAIN WEBB PRIMARY SCHOOL

Maths Curriculum – Key Knowledge and Skills

(Bold-Statutory Statements from NC;
Italics-Non-statutory, but fundamental to ensure knowledge is secure)

		Daycare 2/Rising 3	Nursery Pre-School (3s)	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		GEOMETRY								
		Position, Direction & Movement								
DECLARATIVE KNOWLEDGE:	Facts and formulae (Fluency)	Knows spatial words like on top of, up, down and through.	Knows positional language alone without gestures.	Knows that shapes can be rotated and manipulated to develop special reasoning skills.	<i>Knows the language in order to describe the position of an object.</i>	Knows vocabulary to describe position, direction and movement, including movement in a straight line.	<i>Knows vocabulary to describe rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise). From Yr 2</i>	<i>Knows that co-ordinates are used to locate specific points on a graph.</i>	Knows that a shape is not changed following reflection and translation.	Knows that a 4 quadrant grid involves negative numbers and can describe positions on them
	Relationships between facts	<i>Knows some of the language associated with patterns Eg spots, stripes, checked.</i>	Knows and can describe a familiar route.			Knows vocabulary to describe rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise).				



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PROCEDURAL KNOWLEDGE: Methods (In conjunction with Calculation Policy). Relationships between facts, procedures and missing facts.		GEOMETRY								
		Position, Direction & Movement								
		Knows how to complete inset puzzles. <i>Knows their way around familiar environments.</i> <i>Knows where to find their favourite activities.</i>	Knows how to discuss routes and locations using words like front of and behind. Knows how to create their own spatial patterns showing some organisation or regularity. Knows how to add to simple linear patterns and explores linear patterns of two or three repeating items, e.g. stick, leaf (AB) or stick, leaf, stone (ABC). Knows and joins in with simple patterns in sounds, objects, games and stories dance and movement, predicting what comes next.	Knows how to continue, copy and create repeating patterns within number and the environment.	Knows how to describe position, direction and movement, including whole, half, quarter and three-quarter turns	Knows how to order and arrange combinations of mathematical objects in patterns and sequences.		<i>Knows how to draw a pair of axes in one quadrant, with equal scales and integer labels.</i> Knows how to describe positions on a 2D grid as co-ordinates in the first quadrant. Knows how to describe movement between positions as translations using the correct terms. (left/right and up/down) Knows how to plot specified	Knows how to identify and describe the position of a shape following a reflection or translation. <i>Knows how to describe a translation or reflection of a shape, including reference to the axes in the first quadrant.</i>	Knows how to draw and translate simple shapes on the co-ordination plane and reflect them in the axes. <i>Knows how to predict missing co-ordinates using the properties of shapes. These may be expressed algebraically.</i>



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		Knows how to describe patterns around them using appropriate language.					points and draw sides to complete a polygon.		
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Vocabulary	Daycare <i>2/Rising 3</i>	Nursery Pre-School (3s)	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Top of, Up Down Through	In On Under Up Down Besides between	In On Under Up Down Besides between	Turn Whole turn Half turn Quarter turn Left/right Top/middle/bottom On top of In front of Above Between Around Near/close/far Up/down Forwards/backwards Inside/outside clockwise	turn Clockwise Three-quarter turn Rotation Anti-clockwise	Clockwise Anti-clockwise	Co-ordinate Quadrant Translation Axes Integer label	Co-ordinate Quadrant Translation Axes Integer label Reflection	Co-ordinate Quadrant Translation Axes Integer label Reflection



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